

### ABSTRACT

In one embodiment, a mobile station such as a dual-mode, AMPS and CDMA, handset communicates with an AMPS base station in a wireless communication system . The mobile station includes an acoustic echo canceller  
5 , which can detect acoustic echo, for example, feedback from the handset speaker to the handset microphone , during communication between the mobile station and the base station , and cancel or eliminate the acoustic echo. The mobile station also includes a network echo suppressor coupled to the acoustic echo canceller . For example, the network echo suppressor can read a parameter set  
10 by the acoustic echo canceller . The network echo suppressor attenuates or mutes a network echo caused by portions of the communication returning to the mobile station from the base station after a network propagation delay. Coupling the network echo suppressor to the acoustic echo canceller ensures proper interaction between the network echo suppressor and acoustic echo  
15 canceller .